

The Commonwealth of Massachusetts

ANNUAL REPORT

OF THE

TRUSTEES OF THE GRAFTON
STATE HOSPITAL

FOR THE

YEAR ENDING NOVEMBER 30, 1922

DEPARTMENT OF MENTAL DISEASES



PUBLICATION OF THIS DOCUMENT

APPROVED BY THE

COMMISSION ON ADMINISTRATION AND FINANCE

OFFICERS OF THE HOSPITAL.

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CONSULTING SURGEON.

LEMUEL F. WOODWARD, M.D.	WORCESTER.
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The Commonwealth of Massachusetts

TRUSTEES' REPORT.

To His Excellency, the Governor and the Honorable Council:

The Trustees of the Grafton State Hospital herewith submit the forty-fifth annual report, with the reports of the Superintendent and Treasurer appended.

The past year has been one of unparalleled activity in the history of our hospital. This is characterized in the general appearance of the grounds, readily discernible upon approaching the hospital; the improved condition of the wards, thus ameliorating the condition of the patients, and the clearing of the fields from stone, rock and stumps by dynamite with a view to future increased farm production.

Under the able leadership of our Superintendent a comprehensive plan of development has been promoted; and a system of efficiency and progress installed.

The majority of the wards have been painted and decorated with pictures, rugs, embroidered draperies and refinished furniture. The greater part of this reconstruction work has been done by patients, many of whom living on the so called "disturbed wards" were never before given an opportunity to employ their time in useful activity. As a result of this our wards for the more disturbed, violent type patient have been made very attractive with embroidered draperies, table runners, pictures, baskets of artificial flowers, etc., and the benefit to our patients has been twofold.

The medical work has been raised to a higher standard and the hospital furnished with necessary equipment so that today it more nearly approaches the ideal of a hospital than merely an institution.

During the past year the Superintendent, with the co-operation of the ward physicians, has been able to dispense entirely with all forms of restraint, also the number of hours of seclusion have been decreased materially.

Dr. Wright, State Hydrotherapist, during the months of July and August, instructed nurses and attendants in hydrotherapy and as a result our patients are now receiving the benefits of increased hydrotherapeutic treatment under competent administrators.

A course for attendants was inaugurated so that all people caring for our patients are receiving instructions in the care and treatment of their charges.

A resident dentist was appointed in June, 1922 and extensive dental work has been carried on among the patients.

A great deal has been done to entertain and amuse the patients and as many as four entertainments per week were arranged for, during part of the Winter. This was accomplished by enlisting the co-operation of amateur organizations in the surrounding communities. The Superintendent has encouraged all efforts on the part of the employees to produce any amateur entertainment and a very successful minstrel show, also a comedy, were given at different times during the year, and were repeated at the surrounding hospitals. A mammoth production, "The Pageant of History" was presented on July 4th, in which over one hundred people, including members of the Staff, patients and employees, took part. It is worthy of note that patients with marked anti-social and violent tendencies were used in this Pageant, not merely the more amenable class of them.

While all efforts are directed to benefiting the patients, it is a pleasure to record that the farm production, in the various departments, has been greater than in any other year.

The water line extension from Worcester to this hospital lacked but forty-two hundred feet of completion at the end of the year and we look forward for its early completion as soon as the frost and snow leave the ground.

The need for a recreation building grows greater each year and we again ask for funds for this building. New plans have been drawn and the sum of \$55,000.00 is requested.

We also request \$15,000.00 for an addition to the Pines Service Building. If this is granted we will be able to close the Willows Service Building kitchen and save the wages of two employees. The present kitchen space at the Willows Group could be used as an industrial room.

It is with a feeling of pride that the Board reports the many accomplishments of the past year at the Grafton State Hospital.

We wish to call your attention to the following code which was written by our Superintendent, Dr. Harlan L. Paine, and adopted by the trustees as the official code of the Grafton State Hospital. This code has already been praised so highly by the Superintendents of other hospitals that we feel justified in appending it herewith.

The Board wishes also to express its appreciation of the Staff, and of the employees of the Hospital. It is because of their devoted and loyal service, with that of Dr. Paine's, that we are able to record this great improvement and the very satisfactory conditions at the Grafton State Hospital.

Too much cannot be said in commendation of our devoted Superintendent, Dr. Harlan L. Paine, whose earnest efforts, untiring energy and efficient work have well earned the results obtained. Dr. Paine has the confidence and esteem of the Board, as well as its co-operation and everything points to a successful year of 1923.

FRANK B. HALL.
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FRANCIS PRESCOTT.
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GRAFTON STATE HOSPITAL CODE, NORTH GRAFTON, MASS.

The Grafton State Hospital is operated primarily for the benefit of its patients and their relatives. Without them there could be no Grafton State Hospital. These are simple facts and easily understood.

So then it behooves every man and woman employed here to remember this always, and treat all patients and their visitors with courtesy and careful consideration.

Any member of our force who lacks intelligence to interpret the feeling of good will that the Grafton State Hospital holds towards its patients and their visitors cannot stay here.

See that you always do your part to make the patient feel that this is his home for the time being, and that we are all doing our best to aid him to recover his mental health.

Conduct yourself in such a way that the relatives of a patient will be glad that he is cared for in this particular hospital.

Never be impertinent, "fresh" or rough in your treatment of a patient. If a patient becomes disturbed, seek aid in controlling him, of your superior if possible.

If you injure a patient in any way, then you must explain to a Judge in the Court Room. The Superintendent will not attempt to settle any case that involves the injury of a patient.

You cannot afford to be rough, superior or sullen with any patient or visitor at this hospital.

But these are permanent instructions. No employee of this hospital is allowed the privilege of arguing any point with a visitor.

He must adjust the matter at once to the visitor's satisfaction or call his superior to adjust it. Wrangling has no place in the Grafton State Hospital.

Each member of our force is valuable to us only in proportion to his ability to serve our patients.

The employee who helps to perpetuate this plan is never out of a job or does he escape the eye of his superior.

Every economy practised as to the saving of supplies and materials enables us to give our patients just that much more in comfort and happiness.

Every item of courtesy contributes towards a better pleased patient and visitor, also towards a better hospital.

I hope to have the Grafton State Hospital known as a hospital that does most for its patients.

You can help to make it so! Will you?

HARLAN L. PAINE, M.D.,
Superintendent.

(Approved by the Board of Trustees, November 15, 1922.)

SUPERINTENDENT'S REPORT.

To the Trustees of the Grafton State Hospital:

I respectfully present herewith the forty-fifth annual report of the Superintendent for the fiscal year ending November 30, 1922, with the statistics relating to patients for the period of one year ending September 30, 1922.

MOVEMENT OF THE POPULATION.

The hospital year began October 1, 1921 with 1,499 patients in the hospital, 16 on visit, 26 on escape and 9 in family care, a total of 1,550; an increase of 97 over the previous year. The year ended September 30, 1922 with 1,465 patients in the hospital, 24 on visit, 28 on escape and 7 in family care, a total of 1,524. The daily average number of patients in the hospital for the year was 1,482.09. This represents an increase in our daily average over last year of 57.16 patients actually cared for in the hospital. Since this exceeded our daily quota which was 1,450 we did not receive any large transfers from other hospitals during the year. Forty-two patients were admitted during the year, thirty-five directly from the community, all suffering from epilepsy with psychosis.

MEDICAL WORK.

There have been no changes in our medical staff. This continuity in service results in distinct advantages to our patients as they come to know their physician and look upon him or her as their friend. On the other hand the physician learns the various eccentricities and reactions of his or her patients and as a result is able to make them happier and more contented while with us. The high standard of physical care of the patients in this institution, with its low death rate, is undoubtedly due to this factor.

During the summer months we have had the benefit of the services of two internes, Mr. Harold Spaulding and Mr. Julius Kelley, students from Tufts Medical School. They gave excellent service which I wish to acknowledge at this time.

During the year a physical examination has been done on each patient, also in the laboratory a urine specimen has been examined from each patient.

We purchased and installed an X-Ray Machine, also dental laboratory equipment.

Restraint is no longer used in this hospital and we have succeeded in cutting down the hours of seclusion so that it is practically only used for medical reasons.

Arsphenamine has been given to every patient with a positive Wassermann.

A course for attendants was inaugurated so that all people caring for our patients are receiving instructions in the care and treatment of their charges.

A physician, social worker and psychologist have held clinics in the following towns for the examination of backward school children: Northbridge, Lancaster, Lexington, Maynard, Hudson, Stowe.

GENERAL HEALTH.

The general health of the institution has been excellent during the year. There has been no serious illnesses and only one serious accident. This was an epileptic female patient who had been to the library, in company with other patients and a

nurse, for reading matter. Upon her return to the ward she suddenly fell in a seizure on the concrete steps which caused a fracture of the skull from which she subsequently died.

The Schick Test has been given to all our patients and to those employees who desired it. As soon as the toxin anti-toxin is received it will be administered to all cases showing susceptibility.

Typhoid Vaccine has been given to all new employees and patients.

We have used every effort to enlist the activities of our patients in the making of useful and ornamental articles which would be of value to the institution. Of course a large number of patients were used on the farm and other outdoor activities but during the good weather we have succeeded in occupying a large amount of demented patients from each so called "disturbed ward", both sexes, in grading and carrying out our landscape work. On the more disturbed wards we have had patients tear rags which were used in our industrial rooms to make rugs.

Our male industrial room has turned out a large amount of useful work. To indicate the volume the following few figures are given: 800 chairs refinished in mahogany; 100 pictures framed, 1,710 mattresses were made.

In the female industrial room we have added another instructor, filling the vacancy which has existed for some time, and the output of this room has greatly increased. There is need of another industrial instructor on the female side and I have asked that the position of Head Therapist be granted this coming year. It is felt that the benefit the patients would derive from the activities of a competent woman in this position, as well as the increased output of articles made, would well offset the expense of filling the position.

DIVERSIONAL TREATMENT.

Recognizing the value of this line of treatment a drive was made to secure as many amusements as possible for the patients and in addition to the weekly dances and moving pictures, we were able some weeks to procure as many as two outside entertainments, making four in all for the patients during that week. Amateur organizations in the surrounding towns, when asked, were very willing to give their services and I wish to thank the following organizations for various splendid concerts and entertainments:

Rev. Father Jacques and the members of St. Mary's and St. Phillip's Churches of Grafton and North Grafton, the Dudley-Webster Post, A. L., and their Auxiliary; the Webster Mandolin Club; the Red Men of Worcester County; the Hamilton Girls' Club of Southbridge; the girls of the State Mutual Assurance Company of Worcester, the Alhambra Council of the Knights of Columbus, the Homer Wheaton Post, Veterans of Foreign Wars; the Caledonian Pipe Band of Worcester and North Grafton, the Sons of Veterans and Auxiliary of Westborough, the William DeLisle Post of the American Legion of Grafton and North Grafton, and their Auxiliary; the Johns-Mansville Company for moving picture films and the Westborough State Hospital for their Minstrel Show.

Our own employees showed great interest in preparing plays which were greatly enjoyed by our patients and which were also given at other State Hospitals.

During the Summer a baseball league was formed with the Worcester, Westborough and Medfield State Hospitals and a game was played each Saturday. This was greatly enjoyed by our patients.

An orchestra was organized which gave excellent service for our dances, motion pictures and other entertainments, beside holding practice on wards where it might be enjoyed by the patients, also during the Summer months giving frequent outdoor concerts which was an innovation for the patients.

Our greatest effort in the line of entertainments was on July 4th when an historical pageant was given. Over one hundred costumes were made by our patients and various employees and patients, to the number of one hundred, took part in it. Some of the patients who took part were of the more disturbed class and were undoubtedly benefited by it. Guns, swords, canoes, in fact all stage properties and an out-door stage were built by our patients and employees. Two decorated floats,

representing early historical scenes in which many patients were used took part in the parades in Grafton and North Grafton, on the same day.

The afternoon of the Fourth of July was given over to sports and games of various kinds. Prizes were awarded and refreshments served. In the evening the Pageant was presented on the outdoor stage in our grove.

Frequent purchases of books and magazines were made during the year for the patients' library.

HYDROTHERAPEUTIC TREATMENTS.

Dr. Rebekah Wright, State Hydrotherapist, gave a course of instruction in Hydrotherapy during the summer months to nurses and attendants, and this treatment is being extensively administered to our patients with very good results. This has been incorporated in our course of instruction for nurses and attendants, and all hydrotherapeutic treatments are given under trained administrators.

DENTISTRY.

Dr. George O. Tessier was appointed as resident dentist on July 1, 1922 and has treated patients since.

Much equipment and dental office furniture has been purchased so that now we have a very complete and much needed dental office in the Male Hospital and, on the female side one, in Pines B. We also have finished and established a dental laboratory in the basement of the Administration Building and are now able to make plates for artificial teeth for our patients.

FARM.

The farm has been very successful during the past year. Milk production has been increased 970 pounds per cow, despite the fact that our herd has tuberculosis and is rapidly breaking down under the ravages of the disease. All heifer calves are isolated as soon as born and fed on pasteurized milk and the past year has shown the success of this. We now have twenty-one heifer calves which we have raised during the past fifteen months and test shows them to be free from tuberculosis. In time we will apparently be able to have a tubercular free herd.

A great effort has been made to clear our fields of rock as soon as the crops were taken from them and they were all found to be veritable quarries. One field of four acres, after four hundred loads of rock had been removed from it, still appeared to be covered with blasted boulders. We succeeded in clearing many acres of rock and sowed the fields to rye in order to hold their fertility during the Winter. Snake poling and mud blasting had to be resorted to in order to accomplish this large amount of work. It was impossible to drill these rocks. An attempt was made to clear the field east of the Administration Building of large boulders and also to drain it. A ditch was dynamited from the top of the field to the railroad track and a rock drain culvert built and covered with earth. This should do away with a large number of spring holes that previously made work in this field impossible until late in the summer.

The following figures indicate the magnitude of our farm work: 4,327½ bushels of Potatoes raised; 47,406 pounds of Onions; 22,415 pounds of Squash; 8,382 pounds of Beets; 3,145 bunches of Celery; 5,302 dozen Eggs were produced during the year, and 58,899 pounds of Pork. This has been the first year we have had our own smoked hams and bacon.

REPAIRS AND IMPROVEMENTS.

The following buildings have been painted inside: Oaks A, B, Willows A, B, C, D, and Service Building, Officers Cottage, Elms Cottage, Elms A, Maple Cottage, the kitchens and dining rooms, also hallways at Employee's Cottage; the employees' rooms in the Laundry Building, the Willows Farm House, Oaks Farm House, Oaks Cottage, Bungalow, kitchen and hallways of the Administration

Building, Store Room and Boiler Rooms, Elms B, part of Elms C, and part of Elms D. The following buildings have been painted outside: Oaks A, B, C, D, Farm House, Oaks Cottage, Willows Service Building, Officers Cottage. Beside this many hallways, dormitories and dining rooms had their floors painted. Maple Cottage has been re-shingled.

In the basement of Oaks A, the rotted partitions were removed and a new spray room and toilet room for employees installed. Partitions and all construction were rebuilt with cement and the floor which had sunken was repaired.

New floors were laid in Elm A, ward 1.

Reception rooms for visitors have been fitted out at the Oaks, Elms and the Pines Groups. Nearly one hundred pictures were framed by patients in the Male Industrial Room and placed on the wards and dining-rooms. Many second hand pictures were purchased, framed and placed on the wards.

Most of our wards have been entirely refinished and fitted out with embroidered draperies, pictures, rugs, painted floors, embroidered table runners, and baskets of artificial flowers. Even our most disturbed female ward was so fitted and the patients have shown very little tendency to destroy these things.

New flues were put over the bake ovens and a new hood with ventilator has been installed in the mangle room of the laundry. Heat has been installed there and the entire room painted white. The boiler room was painted and a great deal of grading has been done in the vicinity of the Power House.

The high tension wires from the Power House have been placed in underground conduit and a new cement steam conduit has been built to Elms D. This replaces the temporary wooden conduit built many years ago.

Inside hydrants with hose have been installed in the Female Hospital, and also in Pines C. Our fire fighting equipment has been brought up to a high standard of efficiency.

In the Oaks and Willows Group, which are constructed of wood, a small hose house has been built over the central hydrant and a hose attached to the hydrant ready for immediate use. We have organized a regular fire department and fire drills are held on every ward once a week. There is also an outdoor fire drill once a month.

An X-Ray equipment has been installed, with dark room; also a dental laboratory has been established.

Two boilers were entirely retubed and patched. Another boiler, found to be in need of repair, was patched and fourteen new tubes were installed.

A large amount of dead chestnut wood was cut and 89,000 feet of lumber were sawed on the grounds.

The road to the Oaks Group has been doubled in width and completed. Electric lights have also been installed.

A great deal of new wire had to be installed, especially on the telephone and high tension lines to the Oaks which is six thousand feet long, as a result of the ice storm of last year.

Two calf barns have been constructed in order that we may properly care for our new calves and keep them free from tuberculosis.

A survey of our steam line has been completed by the R. D. Kimball Company of Boston. Plans have been drawn so that we may more economically heat our buildings.

A large amount of new equipment has been added to our laundry to enable us to do our work much easier.

New compartment steamers have been purchased and installed in the Pines and Elms kitchens.

New guards were purchased for Pines C. and D.

For direct radiation and improvement on the heating system, \$7,600 was received for Pines C. and \$6,800 for Elms A. This work has been completed at a total cost of \$10,639.14. These buildings should for the first time be comfortably heated.

TOPOGRAPHICAL SURVEY.

The topographical survey by R. Loring Heywood, landscape engineer, has been completed and the scheme developed will lay out the grounds for the next ten years. In carrying out these plans thousands of tons of rock and cubic yards of earth have been removed and the appearance of the grounds in the vicinity of the Pines Nurses Home entirely changed. The old road by the home has been closed and new solid rock roads constructed in that vicinity. Large areas of rough land have been converted into lawns and the whole area beyond the bridge raised about five feet.

A new ornamental wire fence was installed on the bridge leading to the Pines Group.

Shrubs and evergreen trees have been set out so that in a short time this should be a very beautiful approach to our female group.

Thousands of cubic yards of filling have been used about the Administration Building, yet this task is not completed.

In the vicinity of Officers Cottage much grading has been done and the removal of rocks and stumps has been accomplished. A new road leading to the rear of the Male Nurses Home has also been laid out. Between the Elms Service Building and Elms D large unsightly gullies have been filled in and the whole area of the athletic field raised several feet.

SPECIAL APPROPRIATIONS.

Work was begun this Spring on the installation of the water pipe line between this Institution and Worcester. Despite many difficulties encountered, but 4,200 feet remained to be completed at the end of the year. In addition to the appropriation of \$105,000 granted in 1917, \$45,000.00 was secured for the improvement of our water supply on the hospital grounds, and of this total \$100,109.20 has been expended. Both these contracts should be completed by the end of another year and we then will have a splendid water system, with adequate fire protection. What work has been done on the hospital grounds gives us added water supply which was badly needed. The Oaks Group is now connected with a ten inch line, in addition to the original four inch.

In addition to the \$10,400.00 we already had, \$15,000.00 was received for barns. Part of this amount was used to build a large hay barn and one wing of a cow barn to hold sixty cows. At the end of the year these buildings were completely covered in. Next year it is hoped to complete another wing here, and build a hay barn at the Oaks Group which is badly needed.

Five thousand dollars were received for a cottage for the Steward. Nothing was done on this as it was felt that the barns were needed more. Since these barns have been built by our own force of mechanics construction has been somewhat slow but very thorough.

IMPROVEMENTS RECOMMENDED.

The institution badly needs an Assembly Hall. During the past year new plans were drawn and \$55,000.00 asked for this purpose. At the present time we use the ward day halls of Pines C and Elms B which are entirely inadequate.

For an addition to the Pines Kitchen, \$15,000.00 is asked for. This kitchen is inadequate in size, poorly arranged and with this addition it is felt that we could close the Willows Kitchen and send food to them from our new kitchen doing away with the services of two employees. The kitchen at the Willows Group could be then used for an Industrial Room which is badly needed at that Group.

Money is asked for this year for a Salvage Yard. We also need a new piggery, with cook house and slaughter house. Since we produced 58,899 pounds of Pork last year with our present poor type of building no doubt but what it would pay to properly install the necessary buildings.

Our water is of such nature that anything that comes in contact with it is neces-

sarily short lived. We are asking for grates and dead plates in six boilers to take the place of those now being used and which are not suitable for burning soft coal. One thousand dollars is asked in order to make a start to place some of our high tension wires underground.

Money is asked for fire prevention over the ovens and \$4,920, for laundry machinery which is much needed.

Plans have been drawn and money requested for tunnels between our Elms A and Elms Service Buildings; between Pines B. and Pines Service Buildings. There is no question but what these tunnels are very badly needed to enable us to get our patient to their meals.

ACKNOWLEDGMENTS.

I wish to record my appreciation for the services rendered soldier patients by the American Legion Posts and their Auxiliaries, the Knights of Columbus Welfare Committee and the members of the various other organizations. Nearly every week gifts of every description, delicacies, tobacco and reading matter, etc., are distributed by these patriotic organizations.

The following friends of the hospital have contributed magazines and books: Mrs. Margaret A. Cashman, Mrs. Flora M. Cangiano, Miss Margaret Brigham, Mr. Frank B. Hall, Mr. Winslow P. Burhoe, Dr. Enos H. Bigelow, Hon. Francis Prescott, the citizens of town of Reading, William J. Delisle Post, American Legion and the Grafton Library.

CONCLUSION.

I wish to express my appreciation to the physicians, nurses, attendants, officers and other co-workers who have worked with me for the common purpose in caring for the mentally ill as well as the general hospitals care for the physically ill.

To you, the Board of Trustees, I tender my heartfelt thanks for your counsel and sterling support throughout the year.

Respectfully submitted,

HARLAN L. PAINE,
Superintendent.

TREASURER'S REPORT.

To the Department of Mental Diseases.

I respectfully submit the following report of the finances of this institution for the fiscal year ending November 30, 1922.

CASH ACCOUNT.

Balance December 1, 1921	\$7,704 38
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Receipts.

Income.

Board of inmates:

Private	\$2,009 29	
Reimbursements, insane	15,827 42	
		\$17,836 71

Personal services:

Reimbursement from Board of Retirement		151 42
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Sales:

Food	\$3,156 97	
Clothing and materials	82 93	
Furnishings and household supplies	29 30	
Medical and general care	10 00	

Farm:

Cows and calves	\$180 32	
Hides	94 70	
Sundries	3 35	
		278 37

Repairs, ordinary	411 17	
		3,968 74

Miscellaneous:

Interest on bank balances	\$908 26	
Rent	1,148 48	
		2,056 74

24,013 61

Other receipts:

Refunds of previous year		106 49
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Receipts from treasury of Commonwealth.

Maintenance appropriations:

Balance of 1921	\$22,556 55	
Advance money (amount on hand November 30)	40,000 00	
Approved schedules of 1922	419,056 96	
		481,613 51

Special appropriations:

Approved schedules of 1922		98,777 70
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Total		\$612,215 69
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Payments.

To treasury of Commonwealth:

Institution income	\$24,013 61	
Refunds, account of maintenance	1,061 76	
Refunds of previous year	106 49	
		\$25,181 86

Maintenance appropriations:

Balance of schedules of previous year	\$30,260 93	
Approved schedules of 1922	\$419,056 96	
Less returned	1,061 76	
		417,995 20
November advances	26,230 99	
		474,487 12

Amount carried forward		\$499,668 98
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[illegible]

MAINTENANCE.

Balance from previous year, brought forward	\$98 46
Appropriation, current year	.	.	.	.	.	.	.	528,100 00
Total	.	.	.	.	.	.	.	<u>\$528,198 46</u>
Expenses (as analyzed below)	.	.	.	.	.	.	.	<u>505,401 14</u>
Balance reverting to treasury of Commonwealth	.	.	.	.	.	.	.	\$22,797 32

Analysis of Expenses.

Personal services	\$215,085	81
Religious instruction	1,442	10
Travel, transportation and office expenses	4,378	34
Food	90,569	17
Clothing and materials	21,651	40
Furnishings and household supplies	31,231	72
Medical and general care	10,025	27
Heat, light and power	50,893	41
Farm	23,182	77
Garage, stable and grounds	5,496	78
Repairs, ordinary	22,376	39
Repairs and renewals	29,067	98
Total expenses for maintenance	\$505,401	14

SPECIAL APPROPRIATIONS.

Balance December 1, 1921	\$109,846 86
Appropriations for current year	65,000 00
Total	<u>\$174,846 86</u>
Expended during the year (see statement below), less refund \$69.60	\$100,692 25
Reverting to treasury of Commonwealth	4 20
	<u>100,696 45</u>
Balance November 30, 1922, carried to next year	\$74,150 41

OBJECT.	Act or Resolve.	Whole Amount.	Expended during Fiscal Year.	Total Expended to Date.	Balance at End of Year.
Water supply	Ch. 313, Res. 1917	\$105,000 00	\$60,189 15	\$67,767 30	\$37,232 70
Coal trestle and track scales ¹	Ch. 50, Res. 1918	10,000 00	50	9,463 17	536 83
Hydrotherapeutic equipment	Ch. 50, Res. 1918	6,000 00	513 58	5,995 80	4 20*
Additional fire protection	Ch. 153, Res. 1919	6,000 00	544 56	5,505 06	494 94
Cow barn	Ch. 203, Res. 1921	10,400 00	8,004 16	8,004 16	2,395 84
Water system	Ch. 129, Res. 1922	45,000 00	31,341 90	31,341 90	13,658 10
Cottage	Ch. 129, Res. 1922	5,000 00	—	—	5,000 00
Certain barns	Ch. 129, Res. 1922	15,000 00	168 00	168 00	14,832 00
		\$202,400 00	\$100,761 85	\$128,245 39	\$74,154 61

¹ Total expended by Institutions, \$9,532.77, less refund through Department of Mental Diseases, \$69.60; total, \$9,463.17.

* Balance reverting to treasury of the Commonwealth \$4 20
Balance carried to next year 74,150 41
Total as above \$74,154 61

RESOURCES AND LIABILITIES.

Resources.

Cash on hand	\$13,597 94	
November cash vouchers (paid from advance money):		
Account of maintenance	\$26,230 99	
Account of special appropriations	171 07	
	<hr/>	26,402 06
		\$40,000 00
Due from treasury of Commonwealth from available appropriation:		
Account November, 1922, schedule		47,405 94
Special appropriations		1,984 15
		<hr/>
		\$89,390 09

Liabilities.

Outstanding schedules of current year:		
Schedule of November bills		\$87,405 94
Special schedules		1,984 15
		<hr/>
		\$89,390 09

PER CAPITA.

During the year the average number of inmates has been 1,483.90.
Total cost for maintenance, \$505,401.14.
Equal to a weekly per capita cost of \$6.5497.
Receipt from sales, \$3,968.74.
Equal to a weekly per capita of \$0.0514.
All other institution receipts, \$20,044.87.
Equal to a weekly per capita of \$0.2597.
Net weekly per capita \$6.2386.

Respectfully submitted,

SUSIE G. WARREN,
Treasurer.

Examined and found correct as compared with the records in the office of the Auditor of the Commonwealth.

ALONZO B. COOK,
Auditor.

INMATES FUND.

Cash on hand Dec. 1, 1921	\$5,656	90
Received from inmates	2,064	35
Interest, Worcester Bank & Trust Co.	54	83
Interest, Mechanics Savings Bank	104	65
	<hr/>	
	\$7,880	73
Cash refunded patients	\$1,817	94
Paid to Department of Mental Diseases	340	41
Interest paid to State Treasurer	264	33
Balance:		
Worcester Bank & Trust Co.	\$3,096	45
Mechanics Savings Bank	2,200	00
Drawer	161	60
	<hr/>	
	5,458	05
	<hr/>	
	\$7,880	73

SUSIE G. WARREN,
Treasurer.

VALUATION.

Nov. 30, 1922.

REAL ESTATE.

Land (908 acres)	.	.	.	.	.	.	.	.	.	.	\$28,426	50
Buildings	.	.	.	.	.	.	.	.	.	.	1,352,662	19
											<u>\$1,381,088</u>	<u>69</u>

PERSONAL PROPERTY.

Travel, transportation and office supplies	\$535 60
Food	19,488 70
Clothing and materials	27,666 02
Furnishings and household supplies	88,598 30
Medical and general care	6,090 27
Heat, light and power	30,608 20
Farm	34,002 07
Garage, stable and grounds	—
Repairs	18,431 70
	<hr/>
	\$225,420 86

SUMMARY.

Real estate	.	.	.	.	.	.	.	.	.	.	\$1,381,088	69
Personal property	.	.	.	.	.	.	.	.	.	.	225,420	86
											<u>\$1,606,509</u>	<u>55</u>

STATISTICAL TABLES

AS ADOPTED BY AMERICAN PSYCHIATRIC ASSOCIATION
 PRESCRIBED BY MASSACHUSETTS DEPARTMENT OF MENTAL DISEASES

TABLE 1. — *General Information.*

1. Date of opening institution, Oct. 23, 1877.										
2. Type of institution, State.										
3. Hospital plant:										
Real estate, including building	.	.	.	.	.	.	.	.	\$1,381,088 69	
Personal property	.	.	.	.	.	.	.	.	225,420 86	
Total									\$1,606,509 55	
Total acreage, 908.										
Acreage under cultivation, 180.25.										
4. Medical service: —								Men	Women	Total
Superintendent	.	.	.	.	.	.	.	1	—	1
Assistant superintendent	.	.	.	.	.	.	.	1	—	1
Assistant physicians	.	.	.	.	.	.	.	3	1	4
Dentist	.	.	.	.	.	.	.	1	—	1
								6	1	7
5. Employees: —								Men	Women	Total
Graduate nurses	.	.	.	.	.	.	.	—	9	9
Other nurses and attendants	.	.	.	.	.	.	.	59	48	107
Social worker	.	.	.	.	.	.	.	—	1	1
All other employees	.	.	.	.	.	.	.	75	72	147
								134	130	264
								Men	Women	Total
6. Percentage of patients employed during year								50	39	44.5

TABLE 2. — *Financial Statement.*

See treasurer's report for data requested under this table.

TABLE 3. — Movement of Patient Population for the Year ending September 30, 1922.

	TEMPORARY CARE.			INSANE.			TOTAL ON BOOKS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Patients on books of institution Sept. 30, 1921	-	-	-	790	760	1,550	790	760	1,550
Admissions during year:									
(a) First admissions	-	-	-	17	8	25	17	8	25
(b) Readmissions	1	-	1	8	2	10	9	2	11
Total admissions	1	-	1	25	10	35	26	10	36
(c) Transfers from other institutions for the insane	-	-	-	2	4	6	2	4	6
2. Total received during the year	1	-	1	27	14	41	28	14	42
Total under treatment during year	1	-	1	817	774	1,591	818	774	1,592
Discharged from books during year	1	-	1	39	28	67	39	28	67
(a) As recovered	-	-	-	-	1	1	-	1	1
(b) As improved	-	-	-	3	4	7	3	4	7
(c) As unimproved	-	-	-	6	1	7	6	1	7
(d) As not insane	-	-	-	-	-	-	-	-	-
(e) Transferred to other institutions for the insane	-	-	-	6	1	7	6	1	7
(f) Died during the year	-	-	-	24	21	45	24	21	45
3. Total discharged from books during year	-	-	-	39	28	67	39	28	67
4. Total discharged from books of institution Sept. 30, 1922	-	-	-	778	746	1,524	779	746	1,525
5. Patients remaining on books of institution Sept. 30, 1922	1	-	1						
Supplementary Data.									
6a. Average daily number of patients on books during year	1	-	1	781.808	753.435	1,535.243	782.808	753.435	1,536.243
b. Average daily number of patients actually in institution during year	1	-	1	744.39	737.70	1,482.09	745.39	737.70	1,483.09
7a. Average daily number of patients in family care	-	-	-	.188	7.065	7.253	.188	7.065	7.253
b. Average daily number of patients on visit and escape	-	-	-	37.23	8.67	45.90	37.23	8.67	45.90
8. Number of voluntary patients admitted during year	-	-	-	-	-	-	-	-	-
9. Number of temporary care cases admitted during year	4	-	4	-	-	-	4	-	4
10. Number of patients actually remaining in institution Sept. 30, 1922	1	-	1	735	730	1,465	736	730	1,466
State	1	-	1	714	704	1,418	715	704	1,419
Reimbursing	-	-	-	18	24	42	18	24	42
Private	-	-	-	3	2	5	3	2	5
11. Number of patients in family care Sept. 30, 1922	-	-	-	-	7	7	-	7	7
State	-	-	-	-	-	-	-	-	-
Private	-	-	-	-	7	7	-	7	7
12. Number of different persons within the year	-	-	-	-	-	-	-	-	-
13. Number of different persons admitted from the community	1	-	1	817	774	1,591	818	774	1,592
14. Number of different persons dismissed exclusive of transfers	1	-	1	25	10	35	26	10	36
15. Number of non-insane patients or inmates in institution at end of institution year	-	-	-	33	27	60	33	27	60

TABLE 4. — *Nativity of First Admissions and of Parents of First Admissions.*

NATIVITY.	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Canada	1	-	1	2	2	4	-	-	-
England	2	-	2	2	2	4	2	1	3
Germany	-	-	-	2	-	2	-	-	-
Ireland	-	-	-	1	1	2	2	1	3
Italy	1	-	1	2	2	4	-	-	-
Poland	-	-	-	1	1	2	-	-	-
Portugal	-	-	-	1	-	1	-	-	-
Syria	-	-	-	1	1	2	-	-	-
United States	13	8	21	2	3	5	3	5	8
Unknown	-	-	-	3	5	8	1	1	2
Total	17	8	25	17	17	34	8	8	16

TABLE 5. — *Citizenship of First Admissions.*

	Males.	Females.	Totals.
Citizens by birth	14	8	22
Citizens by naturalization	1	-	1
Aliens	2	-	2
Total	17	8	25

TABLE 6. — *Psychoses of First Admissions.*

PSYCHOSES.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic, total	11	7	18	16	8	24
Deterioration	2	1	3			
Mental deficiency	3	-	3			
With psychosis						
Involution melancholia, total	1	-	1	1	-	1
Simple type						
Total				17	8	25

TABLE 7. — *Races of First Admissions classified with Reference to Psychoses.*

RACE.								TOTAL.			PSYCHOSES.					
											EPILEPTIC.			INVOLUTION MELANCHOLIA.		
								Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
English	.	.	.	.	.	.	.	4	4	8	3	4	7	1	-	1
African	.	.	.	.	.	.	.	1	1	2	1	1	2	-	-	-
French	.	.	.	.	.	.	.	1	-	1	1	-	1	-	-	-
German	.	.	.	.	.	.	.	1	-	1	1	-	1	-	-	-
Hebrew	.	.	.	.	.	.	.	1	-	1	1	-	1	-	-	-
Irish	.	.	.	.	.	.	.	1	1	2	1	1	2	-	-	-
Italian	.	.	.	.	.	.	.	2	-	2	2	-	2	-	-	-
Mixed	.	.	.	.	.	.	.	1	1	2	1	1	2	-	-	-
Slavonic	.	.	.	.	.	.	.	1	-	1	1	-	1	-	-	-
Syrian	.	.	.	.	.	.	.	1	-	1	1	-	1	-	-	-
Unknown	.	.	.	.	.	.	.	3	1	4	3	1	4	-	-	-
Total	.	.	.	.	.	.	.	17	8	25	16	8	24	1	-	1

TABLE 8. — Age of First Admissions classified with Reference to Principal Psychoses.

PSYCHOSES.	YEARS.																	
	TOTAL.			15-20.			20-25.			25-30.			35-40.			45-50.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic	16	8	24	3	4	7	4	1	5	1	1	2	3	2	5	2	-	2
Involution melancholia	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	17	8	25	3	4	7	4	1	5	1	1	2	3	2	5	2	-	2

TABLE 9. — Degree of Education of First Admissions classified with Reference to Psychoses.

PSYCHOSES.	TOTAL.						NONE.			READS AND WRITES.			COMMON SCHOOL.			HIGH SCHOOL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
	16	8	24	-	-	-	6	6	12	9	2	11	1	-	1	1	-	1
Epileptic	1	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
Involution melancholia	17	8	25	-	-	-	7	6	13	9	2	11	1	-	1	1	-	1

TABLE 10. — *Environment of First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			URBAN.			RURAL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic	16	8	24	16	8	24	-	-	-
Involution melancholia	1	-	1	1	-	1	-	-	-
Total	17	8	25	17	8	25	-	-	-

TABLE 11. — *Economic Condition of First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			DEPENDENT.			MARGINAL.			COMFORTABLE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic	16	8	24	4	5	9	12	3	15	-	-	-
Involution melancholia	1	-	1	-	-	-	1	-	1	-	-	-
Total	17	8	25	4	5	9	13	3	16	-	-	-

TABLE 12. — *Use of Alcohol by First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			ABSTINENT.			TEMPERATE.			INTEMPERATE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic	16	8	24	7	8	15	7	-	7	2	-	2
Involution melancholia	1	-	1	1	-	1	-	-	-	-	-	-
Total	17	8	25	8	8	16	7	-	7	2	-	2

TABLE 13. — *Marital Conditions of First Admissions classified with Reference to Principal Psychoses.*

PSYCHOSES.	TOTAL.			SINGLE.			MARRIED.			SEPARATED.			WIDOWED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Epileptic	16	8	24	12	6	18	2	2	4	-	-	-	2	-	2
Involution melancholia	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-
Total	17	8	25	13	6	19	2	2	4	-	-	-	2	-	2

TABLE 14. — *Psychoses of Readmissions.*

PSYCHOSES.	Males.	Females.	Totals.	Males.	Females.	Totals.
Dementia præcox, total	1	-	1	5	2	7
Hebephrenic	4	2	6	1	-	1
Epileptic, total	1	-	1	1	-	1
Deterioration	1	-	1	1	-	1
With psychosis	1	-	1	1	-	1
Involution melancholia	1	-	1	1	-	1
Psychoneuroses and neuroses	1	-	1	1	-	1
Hysterical type	1	-	1	1	-	1
Psychoses with other brain or nervous diseases	1	-	1	9	2	11
Tabo paresis						
Total						

TABLE 15. — *Discharge of Patients classified with Reference to Principal Psychoses and Condition on Discharge.*

PSYCHOSES.	TOTAL.			IMPROVED.			UNIMPROVED.			RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Dementia præcox	5	1	6	2	1	3	3	-	3	-	-	-
Epileptic	2	2	4	-	1	1	2	1	3	-	-	-
Involution melancholia	-	1	1	-	1	1	-	-	-	-	-	-
Manic-depressive psychoses	-	2	2	-	1	1	-	-	-	-	1	1
Psychoses with cerebral syphilis	1	-	1	1	-	1	-	-	1	-	-	-
Without psychosis	1	-	1	-	-	-	1	-	1	-	-	-
Total	9	6	15	3	4	7	6	1	7	-	1	1

<i>Diseases of the Digestive System.</i>													
Peritonitis	1	—	1	—	—	—	—	—	—	—	—	—	—
<i>Nonvenereal Diseases of the Genito-Urinary System and Anæra.</i>													
Chronic interstitial nephritis	1	—	—	—	—	—	—	—	—	—	—	—	—
Chronic parenchymatous nephritis	1	—	—	—	—	—	—	—	—	—	—	—	—
<i>Affections produced by External Causes.</i>													
Asphyxiated by burying face in pillow during an epileptic seizure	1	—	—	—	—	—	—	—	—	—	—	—	—
Fracture of skull	—	1	—	—	—	—	—	—	—	—	—	—	—
Total	24	21	45	2	1	3	10	11	21	5	6	11	1

[illegible]

TABLE 17. — Age of Patients at Time of Death classified with Reference to Principal Psychoses.

PSYCHOSES.	TOTAL.			YEARS.																				
				20-25.			25-30.			30-35.			35-40.			40-45.			45-50.			50-55.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Alcoholic	2	1	3	-	-	1	1	-	-	1	1	-	1	2	3	-	1	1	2	-	1	1	2	3
Dementia præcox	10	11	21	-	-	1	1	-	-	1	1	-	1	2	3	-	1	1	2	-	1	1	2	3
Epilepsy	5	6	11	-	2	2	2	2	4	1	1	-	1	1	-	-	1	1	-	-	1	-	-	-
General paralysis of the insane	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Involution melancholia	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manic depressive	3	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Psychoses due to drugs	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Psychoses with mental deficiency	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Psychoses with other somatic diseases	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Psychoses with psychopathic personality	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	24	21	45	2	2	6	3	3	6	2	-	2	2	4	1	1	2	3	1	1	2	2	1	3

TABLE 18. — Total Duration of Hospital Life of Patients dying in Hospital classified according to Psychoses.

PSYCHOSES.	TOTAL.			MONTHS.						YEARS.					
				2-4.			6-7.			1-3.			3-6.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Alcoholic	2	1	3	-	-	-	-	-	-	-	-	-	1	-	1
Dementia præcox	10	11	21	-	-	-	-	-	-	-	-	-	1	1	2
Epilepsy	5	6	11	1	1	2	-	-	2	1	1	2	-	1	1
General paralysis of the insane	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-
Involution melancholia	1	-	1	-	-	-	1	-	1	-	-	-	-	-	-
Manic depressive	3	1	4	-	-	-	-	-	-	-	-	-	2	-	2
Psychoses due to drugs	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Psychoses with mental deficiency	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Psychoses with other somatic diseases	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Psychoses with psychopathic personality	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Total	24	21	45	1	1	2	1	-	1	1	3	4	4	2	6

TABLE 19. — *Family Care Department.*

	Males.	Females.	Totals.
Remaining Sept. 30, 1921	1	8	9
Admitted within the year	—	—	—
Whole number of cases within the year	1	8	9
Dismissed within the year	1	1	2
Died	1	—	1
Returned to institution	—	1	1
Remaining Sept. 30, 1922	—	7	7
Supported by State	—	7	7
Number of different persons within the year	1	8	9
Number of different persons dismissed	1	1	2
Daily average number . . . . .	.188	7.065	7.25
State . . . . .	.188	7.065	7.25